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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/680,129	10/08/2003	Shiro Dosho	60188-674	4681
20277	7590	08/25/2006	EXAMINER	
MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			LE, DINH THANH	
			ART UNIT	PAPER NUMBER
			2816	

DATE MAILED: 08/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	10/680,129		DOSHO ET AL.	
	Examiner		Art Unit	
	DINH T. LE		2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 6/1/06.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

NON-FINAL REJECTION

The prior art reference newly found necessitated a new ground of rejection as below:

Drawings

Figures 12-15 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections

Claim Rejections - 35 USC § 112

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction or clarification is required.

In claim 1, it is not understood how the signal can be provided to the filter by "way of gain adjusting means", where this means comes from, how the gain to be "set" since no means

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for performing setting function is recited in this claim and how the value can realize a desired transfer function and what the value and the desired transfer function are. The same is true for claim 6.

In claim 2, the recitation “its phase characteristic” lacks clear antecedent basis. It is unclear what the ratio of gains is, how this ratio can be “obtained”, what the “desired gain boosted characteristic” and “phase characteristic” are and if the recitation “a value” on line 3 is additional value of further recitation of the previously claimed “value” on line 9 of claim 1.

In claim 3, it is not understood what the “filtering process” on line 1 is, how the first input terminal can be provided for this process, where the second signal input terminal can be provided for, and if the recitation “signal” on line 6 is additional “signal” or further recitation of the previously claimed “signal” on line 5 of claim 1.

In claim 4, it is unclear how the recitation “stage” is read on the preferred embodiment. Insofar as understood, no such stage is seen on the drawings.

The remaining claims are dependent from the above claims and therefore also considered indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-5 are rejected under 35 USC 102 (b) as being anticipated by Kovacs et al (US 6,144,981).

As the best construed, Kovacs et al discloses a filter circuit in Figures 4-7 comprising:

- multiple inductor section (16b1-16b2), each said inductor equivalent circuit sources (100', 100''); and
- wherein a signal input (Vin) to the ladder filter is provided to at least one of the voltage-controlled current sources by way of gain adjusting means (30b, 33b, 50b), and wherein a gain obtained by the gain adjusting means is set to such a value as realizing a desired transfer function for the ladder filter.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6-7 are rejected under 35 USC 103 (a) as being unpatentable over Yoashizawa (US 6,369,644) in view of Kovas et al (US 6,114,981).

Yoashizawa discloses in Figure 3 a circuit comprising:

- a gain adjusting means (11);
- a filter (12); and
- a comparator (17) for tuning the gain of the filter.
- However, Yoashizawa does not disclose that the filter is the ladder filter having inductor

sections being implemented by an equivalent circuit including voltage-controlled current sources and capacitors.

Nevertheless, Yoashizawa suggests in Figures 5-7 a ladder filter circuit comprising voltage controlled current sources and capacitors for compensating low frequency gain loss, see lines 39-42.

It would have been obvious to a person having skill in the art at the time the invention was made to employ the ladder filter as suggested by Yoashizawa in the circuit of Kovas et al for compensating low frequency gain loss.

Response to Applicant's Arguments

The applicant argues that claims 1-5 were canceled accordance with the Request Form filed on October 8, 2003. The argument is not persuasive because this Form has not be received. A copy of this Form should be provide to overcome the rejection of claims 1-5 as stated above.

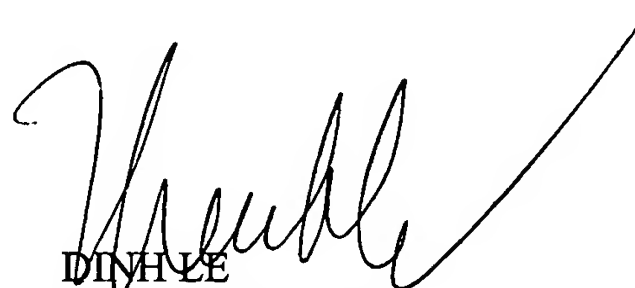
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY CALLAHAN can be reached at (571) 272-1740.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



DINH LE
Primary Examiner

8/16/06